

# Zebra Systems 1986B Catalog of Timex/Sinclair Products

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The Official

## TS2068 Technical Manual

*2nd Edition Now in Stock*

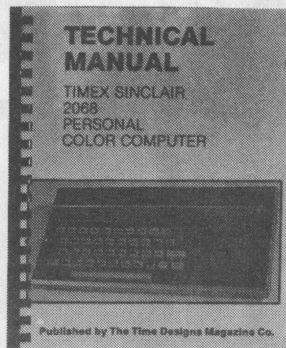
**Features Many Improvements:**

- \* Full Color Cover
- \* Over 300 8 1/2 x 11" Pages
- \* Spiral Bound, weighs 2 lbs.
- \* More Readable Text
- \* Printed - not photocopied!
- \* Reworked Diagrams and all known corrections are made.

By far the most comprehensive source of information on the TS2068, the TS2068 Technical Manual contains a great deal of information that is unavailable anywhere else. Contains explanation of the system software, ROM listings, hardware description, memory utilization, schematic diagram, assembly drawings and more. No serious TS2068 user should be without it.

**Cat# C416 TS2068 Technical Manual**

**\$25.00**



# Tech Draw Junior - Joystick Graphics Software

Tech Draw Junior was inspired by Apple's MacPaint for the MacIntosh computer. Like MacPaint, Tech-Draw works in black and white, so that what you see on your screen is what you get on your printer.

Tech Draw Jr. provides 16 brushes and 35 shades and patterns, with resolution to one pixel.

On-Screen and pull-down menus, make the program extremely easy to use, and give it a really high-tech, friendly feel.

Draw commands include Circle, Line, Fixed Vertical or Horizontal, Fill, Undo, and Text.

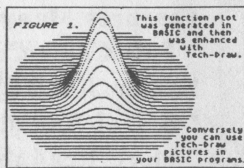
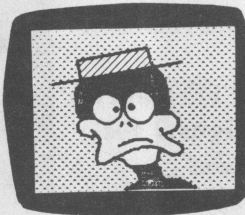
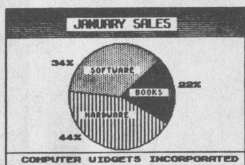
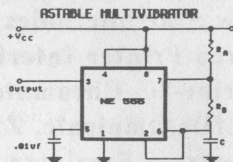
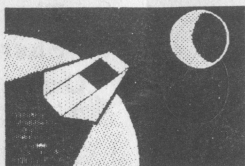
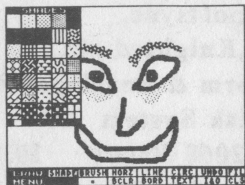
Text Mode features a selection of font styles and sizes, full screen editing, and character or bit-level positioning.

Printer Support includes Aerco, Tasmam B & C, A&J printer interfaces, screen dumps to the Timex 2040, Epson FX, RX, Star 10X, SG10, NX10, Memotech DMX80, Panasonic 1090 Citoth 8510, Seikosha GP100/250, Prowriter, and Gorilla Banana printers. Storage devices supported include cassette, A&J, and Zebra FDD.

Comes on cassette with manual.

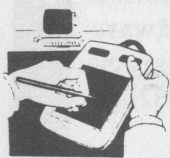
Cat# C256 Tech Draw Jr.

Only \$19.95



These are sample pictures drawn with Tech Draw and Tech Draw Junior. Tech Draw Junior uses a joystick as its input device, whereas Tech Draw uses the Zebra Graphics Tablet. This is the only significant difference between these two Zebra Systems programs. MacPaint, and MacIntosh are trademarks of Apple Computer.

## Graphics Tablet for the TS2068 now only \$69.95 including interface, Zebra-Painter and Tech Draw.



The Zebra Graphics Tablet features a rectangular touch sensitive drawing area, two control buttons for programmable functions, and a plastic drawing stylus. It is supplied with a small Zebra Graphics Interface Adaptor

that plugs into the back of your TS2068 and has a feedthrough expansion connector behind it for other peripherals.

The tablet is supplied with two powerful drawing programs: Tech Draw, and ZebraPainter. Tech Draw works with black and white only for compatibility with the Timex TS2040 and many dot-matrix printers. ZebraPainter works in color and has limited print capability. Supplementary software is available at additional cost.

The Tablet comes with the interface, TechDraw, Zpainter, Instruction manuals and our 90-Day limited warranty.

Cat# C254 Zebra Graphics Tablet

69.95

# Now Create Your Own Signs, Banners, and Greeting Cards.

Last Christmas we introduced our TS2068 Greeting Card Designer program. It was so popular that we have since written two more programs to further increase the usefulness and enjoyment of your dot matrix printer. So now there are three different programs in what we are calling our Graphics Designer Series. With the Greeting Card Designer you can create greeting cards for birthdays, anniversaries, holidays, custom invitations, and more. And with the Sign Designer and Banner Designer you can create signs and banners for store sales, garage sales, meetings, parties, or whatever.

The card, banner, and sign programs all allow you to mix text and pictures in your creations. All three programs include a graphics editor so that you can create your own pictures to add to the picture libraries already included with each program.

The Designer Series programs work nicely with cassette, A&J micro-drives, or Zebra FDD. Parallel printer interfaces supported are Aerco, Tasman, and A&J. Printers supported include Epson RX80, FX80, Star 10X, SG10, NX10, Memotech DMX80, Panasonic 1090, C-ITOH 8510, Legend 808, Prowriter, and Seikosha GP-250.

Buy one, two, or all three:

**#C272 Card Designer \$19.95**

**#C280 Banner Designer 19.95**

**#C281 Sign Designer 19.95**

## *Brightly Colored Pinfeed-Paper & Matching Envelopes*

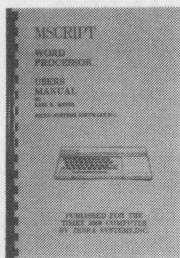
If you'd really like to create fantastic looking cards, signs, and banners, try a package of this very brightly colored fan-fold paper and matching envelopes. Each package contains 120 sheets of paper and 42 envelopes.

**#C274 Paper Pack 19.95**



With Zebra's Graphics Designer Series it's easy and enjoyable making your own greeting cards, signs, and banners.

# MSCRIPT Word Processor for the TS2068



MSCRIPT is the most advanced word processor available for TS2068 and full sized printers. MSCRIPT uses the TIMEX 2068's 64 Column Extended Screen Mode for a clear 64 X 22 character display.

Other features include full control of text width and margins, page headers, page footers, page numbering, auto-centering

of text, full use of your printers special features from within documents, automatic word wrapping, right justify, block move, block copy and delete functions.

Also find and replace any text string. These and other features make MSCRIPT the best TIMEX 2068 word processor available.

MSCRIPT requires an AERCO, TASMAN (Rev. B or C) or A & J Centronics Printer Interface and works with all Centronics Compatible 80 Column printers.

MSCRIPT includes an 90 page user's manual, quick reference card and cassette with program and sample files.

Zebra publishes four different versions of MSCRIPT, each optimized for a different mass storage device:

Cat# C160 Cassette Version	Price: \$24.95
Cat# C159 A & J Version	24.95
Cat# C162 Zebra FDD Version	24.95
Cat# C161 AERCO FDD Version	24.95

## No full size printer for your TS2068? What are you waiting for?

### FREE OFFER!

The first few pages of this catalog should make it abundantly clear to any TS2068 user that there are many wonderful applications for today's high resolution dot matrix printers. It's true that these printers cost more than your TS2068 computer cost you, but believe me they're worth the investment. To help you take the jump here are two sale specials.

With each purchase of a TS2068 AERCO printer interface or the new Star

Micronics NX10 printer, get absolutely free, a copy of any one of the following TS2068 printer productivity software packages:

#### MSCRIPT

Tech Draw Junior

Banner Designer

Sign Designer

Greeting Card Designer

ZPRINT80

Or purchase both the interface and the NX10 and get two of these programs absolutely free.

## Star Micronics NX-10 Dot-Matrix Printer

We highly recommend this printer. It's the latest model Star printer and features exceptional near letter quality printing at 30CPS and 120 CPS for standard. New features include convenient front panel push button selection of type style and page formatting, 5K print buffer, friction and bi-directional tractor feed, automatic single sheet feed, and 1 year warranty. It fully emulates the IBM Graphics printer, has full IBM character set, and is compatible with all Zebra TS2068 graphics software packages. Catalog # NX10 \$299.95



## AERCO Centronics Printer Interface

The AERCO Centronics Printer Interface is the best selling TS2068 printer interface. As a result, nearly all advanced TS2068 software directly

supports it. Software to support LLIST, LPRINT, and COPY is included with the interface, as well as the connecting cable. Catalog # C180 \$69.95



# PRODUCTS FOR THE TS2068

(The Z.A.D. also supports the TS1000)

## ZPRINT-80

### Full Page Graphics Print Driver

ZPRINT-80 produces sideways 8.5 x 11 inch full-page gray-scale print-outs of color screen images on your Timex/Sinclair 2068 or 48k Spectrum. Each color will be translated to a corresponding tone of gray. The ZPRINT-80 also supports a 2040 size COPY to your 80-Column printer. Your ZPRINT-80 cassette includes both High and Low Memory Timex 2068 and ZX-Spectrum versions for maximum compatibility.

ZPRINT-80 also includes 80-Column LPRINT and LLIST support. With the ZPRINT-80 Printer Drivers you can use your 80-column printer with your own or existing applications programs.

ZPRINT-80 is compatible with the AERCO, TASMAN (Rev B or Rev C) OLIGER and the A & J Centronics Printer Interfaces and the following 80-Column Printers: Epson MX-80, RX-80 and FX-80, STAR 10X, SG-10 NX10, Memotech DMX-80, Panasonic 1090, Legend 808, and Spirit-80.

Cat# C270 ZPRINT-80 \$19.95

## JB's Banner Program

### Supports TS2040 Printer!

This TS2068 program uses a high resolution character set, (32 x 32 cells) to give excellent quality printout on the TS2040 or on full sized printers. The character set uses proportional spacing, so that thin letters like "i" take up less width than wide letters like "w". It is very simple to use. This program supports the same model printers as does Zebra's Banner Designer program described on catalog page 3.

Cat# C418 JB's Banner Program \$14.95

## PR's Chromatech

### Add Color to B&W Images

Chromatech is a utility that lets you color TS2068 screen images and save them to tape. It is an excellent companion program to black and white drawing programs such as VU- 3D and Tech Draw Jr.

Cat# C417 PJ's Chromatech \$14.95

## Profile 2068

### Data Management Software

Simply the best and most popular data base program available for the TS2068. Includes cassette and 80 page manual.

Cat# C234 Profile 2068 \$27.95

## Spectrum Emulator Cartridge

Now you can run almost any Sinclair Spectrum cassette software on your TS2068 computer. Simply plug a Zebra Spectrum Emulator Cartridge into your cartridge slot. It over-rides the TS2068 ROM with a Spectrum ROM, and puts pull-up resistors on critical signal lines. These Spectrum emulator cartridges have attractive rugged plastic covers.

Cat# C234 Spectrum Emulator Cartridge \$29.95

## Spectrum Books

Spectrum Hardware Manual	14.95
The Complete Spectrum ROM Disassembly	19.95
Understanding Your Spectrum	14.95
Spectrum Machine Language for the Absolute Beginner	14.95
Advanced Spectrum Machine Language	12.95
Spectrum Software Projects	12.95
Spectrum Microdrive Book	12.95
Over The Spectrum	14.95
Supercharge Your Spectrum	12.95

## Z.A.D.

### Zebra Analog-to-Digital Converter

Experimenters rejoice! You can now get an inexpensive 8- channel Analog-to-Digital interface for your ZX81, TS1000, TS1500, or TS2068. The manual includes sample applications and I/O software. Z.A.D. features a 46-pin feed-through connector for peripheral expansion. Each A to D channel has 8-bit resolution and 0-5 volt full scale range. There are many good application suggestions for using A to D's in the following two books also available from Zebra: Computer Interfacing Techniques in Science, Powerful Projects for the Timex/Sinclair.

Cat# C403 Z.A.D. \$39.95

## Your Products?

Zebra Systems is always looking for good Timex/Sinclair products to add to our product line. If you think you've created something with wide appeal, why not contact us about producing and marketing it.

## A & J Micro Drives for TS1000 and TS2068

The A & J Micro Drives are a low cost mass storage system for your TS1000/1500 or 2068 Computers. They feature a high speed data transfer rate which is many times faster than cassette as well as being many times more reliable. You can load a 28k program in 24 seconds without the loading problems associated with tape. The Microdrive attaches to the expansion connector on the back, and your existing peripherals attach behind it. The Micro Drives operate using simple commands and most programs will run with little or no modification. Up to 2 drives may be connected for a maximum of 170k online storage. TS2068 version also includes a Centronics Printer interface (cable extra). New systems use version 2 wafers and cable kit B.

### The Starter Kits include:

- \* A & J Micro Drive 0
- \* Interface for 2 Drives
- \* 5 Wafers (1 ea: 5',10',20',35',50')
- \* Wafer Organizer
- \* Operators' manual
- \* 90 Day Warranty

Cat#	AJ01	TS2068 Starter Kit	\$149.50
Cat#	AJ06	TS1000/1500 Starter Kit	149.50
Cat#	AJ02	Micro Drive Add-on Drive	99.50
Cat#	AJ08	2068 Cable Kit B (new)	24.50
Cat#	AJ07	2068 Cable Kit A (old)	39.50
Cat#	AJ05	Wheel (holds 30 wafers)	18.75
Cat#	AJ03	Organizer folder (holds 16)	5.00
Cat#	AJ04	Caddy tray (holds 6)	9.95

### Wafers

#### A&J TS1000/2068 Version 2

Cat #	Length	Bytes	Price
AJ70	5'	8.5k	3.50
AJ71	10'	17k	3.50
AJ72	20'	34k	4.00
AJ73	35'	59.5k	4.00
AJ74	50'	85k	4.50

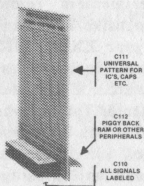
#### Entrepo TS2068 Version 1

AJ10	10'	14k	4.00
AJ20	20'	28k	4.00
AJ35	35'	49k	4.25
AJ50	50'	70k	4.50
AJ62	62'	85k	4.50

### Protocards & Connectors

#### TS2068

C210 64-Pin Keyed & Labeled Edge Connector	\$6.95
C211 TS2068 Universal Prototyping Board	\$10.95
C212 64-Pin Expansion Connector	\$2.60
<b>ZX81/TS1000/TS1500</b>	
C110 46-Pin Keyed & Labeled Edge Connector	\$5.95
C111 TS1000 Universal Prototyping Board	\$9.95
C112 46-Conductor Expansion Connector	\$2.50



PROTOTYPING BOARDS C111 & C211 are printed circuit boards specifically patterned for breadboarding on the TS1000 and TS2068 respectively. Both boards are made of high quality G10 glass-epoxy material, have soldermasks to minimize the possibility of soldering shorts in the connector area, are solder flux coated for easy soldering, and are silk screened to make identifying the power bus and mating-connector slot positions apparent. The C211 is wider than the C111 to accommodate the wider TS2068 connectors. At the bottom of each C111 is a conductor pattern to match with edge connector C110. Similarly C112 has a longer pattern which can match with either the C110 or the longer C210. Both boards feature breadboard areas with over 1000 holes drilled on 0.1 inch spacing to accommodate integrated circuits and other electronic parts. The copper foil pattern provides for one power and one ground bus to make wiring efficient.

EDGE CONNECTORS C110 & C210 are female solder-tail edge connectors with lengths and keys to match the TS1000 and TS2068. They have custom labels identifying each pin number and the corresponding signal names for the TS1000 or TS2068. You will find these labels save you time and help prevent wiring errors.

EXPANSION CONNECTORS C112 & C212 are solder tinned printed circuit boards with 0.1 inch edge finger patterns on two sides and with a .070 inch notch in the proper key position for their respective computers. These connectors can be used behind your protocards to extend your computer bus to other peripherals such as modems, printers, and RAM Packs.

## Amazingly Low Priced Voice Synthesizers

The Zebra-Talker unlimited vocabulary voice synthesizer uses the famous Votrax SCO1 phoneme synthesizer with 4 programmable pitch levels, automatic inflection, and the ZTalker Text-to-Speech software on cassette (TS1000 version requires 16k). This software contains an advanced machine language algorithm with more than 400 rules of English pronunciation. All you have to do is type in text in English and ZTalker will produce the necessary sequence of phonemes.

The Zebra-Talker also features an expansion connector for "piggy-back" expandability, phoneme editor, phoneme dictionary, and instruction manual. The Audio Output plugs into any audio system, or order our #C145 Speaker/Amplifier Module with volume control.

Cat# C141	Zebra-Talker 1000	\$35.00
Cat# C241	Zebra-Talker 1500	35.00
Cat# C242	Zebra-Talker 2068	35.00
Cat# C145	Speaker/Amplifier	12.50

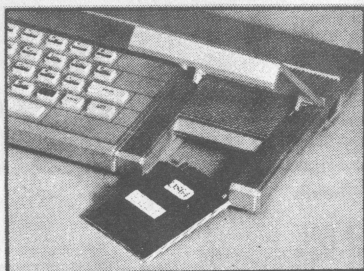
# OS-64 Cartridge gives 64-column display and has large printer drivers built in.

With OS-64 plugged in, just turn on your computer and you'll get 64 characters per line. OS-64 is an improved version of the TS2068 operating system that gives you twice as much text on screen and is fully compatible with all the old BASIC commands. Existing BASIC programs are easy to change to 64 columns.

Plus OS-64 has replaced the TS2068's 32 column TS2040 printer drivers with built in large printer support. So now, LPRINT, LLIST, (and COPY for EPSON-compatible printers), work in 64 columns on your large printer and you don't have to load any cassette software drivers. OS-64 supports AERCO, TASMAR, or A&J Centronics Interfaces.

Catalog# C271 OS64 Cartridge

\$29.95



## ZTerm 64-Column Modem Software

Zterm64 is the latest and most powerful TS2068 software package for the WC2050 modem. It works in conjunction with Zebra's OS64 operating system cartridge to give a full 64 column display and support for full size printers. It also features the widely used XMODEM protocol for uploading and downloading, and supports file storage to cassette, A&J microdrive, and Zebra Disk System. Uses very clear on-screen menus. Software on cassette with manual. Check the Timex BBS's for rave reviews.

Catalog # C279 ZTERM64

\$29.95



## OS-64 Utility Tape

OS-64 Utilities Tape #1 contains a collection of software routines for use with OS-64 for the TS2068. The utilities include: **BIGCOPY**-An alternate system copy routine that provides full page (enlarged) screen COPY for Epson compatible printers, **OPTBOLD**-Provides an optimized bold character set for enhanced visibility on low-res video screens, **BIGCHAR**-This routine allows you to print three enlarged character modes from BASIC, **EDITOR64-A** 64-column screen editor subroutine for use by advanced programmers, **OLIVCOPY**-Alternate system COPY for Olivetti PR2300, **FDDRS232**-Alternate system printer interface driver, allows Zebra FDD users to pass LPRINT, LLIST, and COPY output through the FDD RS232 port.

Catalog #: C278 OS64 Utility Tape#1

\$19.95



## Personal Secretary

The OS-64 Personal Secretary is a 64 column mode program which features an automatic monthly calendar in one window, menus in another window and your database information in a third. You can store and manage 200 appointments and 50 phone numbers with addresses. Requires OS-64 Operating System Cartridge (NOT INCLUDED). Does NOT support the TS2040 or ALPHACOM/32 Thermal Printers. As reviewed in the JAN/FEB 86 issue of TIME DESIGNS (page 24).

Catalog #: C276 Personal Secretary

\$19.95

### OS-64 Personal Secretary Sample Screen

JANUARY 1986									
SU	MO	TU	WE	TH	FR	SA			
			1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30	31				

DAY	TIME	WITH WHOM	DESCRIPTION
18	10 00	SERVICE STATION	GET CAR PAY BALANCE
18	12 00	GEORGE AND LORRAINE	PLAN SURPRISE PARTY
18	4 00	RENNER	ORDER MORE ZEBRA CDS
18	4 30	SISTER	PLAN SURPRISE PARTY

PERSONAL SECRETARY  
© 1985 J.D. Software

# \* \* TS2068 SOFTWARE \* \*

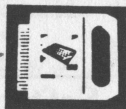
## TIMEX Corporation

**SAVE \$\$\$**  
**\$5 EACH,**  
**2 for \$9,**  
**3 for \$12**

We purchased the inventory of a very large chain store. These are all original Timex product in full color boxes.

### Cartridges

Cat#	Title
72000	Budgeter
73001	States & Capitals
74001	Androids
74005	Crazybugs



### Cassettes

61003	Quadra-Chart
62001	Home Improvement Planner
62003	Auto Analyzer
62009	Personal Portfolio Manager
62010	Personal Home Finance
63001	States and Capitals
63004	Timex Teacher I
63010	Spelling I
63011	Spelling II
63016	Math Wizardry I
63017	Math Wizardry II
63019	Wordcross
63020	Word Play I
63021	Word Play II
63025	Language Usage
64001	Androids
64002	Penetrator
64004	Casino I
64005	Crossfire
64006	Circuit Board Scramble
64007	Dragmaster
64009	Guardian
64010	Stock Market Simulation
64012	Fin Golf
64013	Chess
64014	Hungry Horace
64015	Horace Goes Skiing
64019	Horace and the Spiders
64021	Blind Alley
64023	Crazybugs

**NEW  
LOW  
PRICES!!**

## TIMEX CARTRIDGES

Cat#	Title	Price
71234	Pinball	10.00
71234	Flight Simulator	15.00

## TIMEX CASSETTES

61234	Vu-Calculator	15.00
61234	Vu-File	15.00
61234	Vu-3D	15.00
61234	Flight Simulator	15.00

## SOFTSYNC

SS001	Voice Chess	22.45
SS002	Cyberzone	17.95
SS003	Gulpmen	17.95
SS004	Personal Accountant	22.45
SS005	Zeus Assembler	17.95
SS006	Zeus Monitor & Disassembler	17.95

## KNIGHTED COMPUTERS

KC01	Multi-Draw 2068	15.95
KC02	Fighter Pilot (F-15 EAGLE)	16.95
KC03	Thoroughbred Handicapping	16.95
KC04	Harness Handicapping	16.95
KC05	Greyhound Handicapping	16.95
KC06	Night Gunner	16.95
KC07	TS2068 BASIC Toolkit	13.95
KC08	ZIP BASIC Compiler	16.50
KC09	Trashman	15.95
KC10	Travels with Trashman	15.95
KC11	Machine Code Tutor	18.50

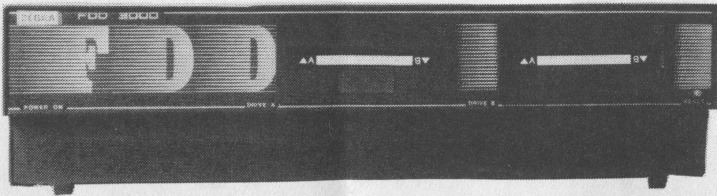
## SHARPS

C202	War In The East	17.45
C203	Fall of the 3rd Reich	17.45
C204	Battle of The Bulge	17.45
C205	Britain Invaded	17.45
C204	Fall of Rome	17.45

## ASSORTED SOFTWARE

TEJ01	Musicola	24.95
TEJ02	Grafist	19.95
TM01	Tasword Two	Now only 14.95





## THE BEST DISK SYSTEM FOR THE TS2068 JUST GOT EVEN BETTER!

### New Packaging, 2 Drives, 64K CP/M

The best disk system for the TS2068 just got even better! Our new disk drives for the TS2068 retain all the performance features of the original Zebra Disk System, but now the power supply, FDD controller, and two disk drives are all housed in a single compact attractive black metal case. This case is sturdy enough so that you can place a monitor or small portable television on top to give that IBM-like high-tech appearance. The new Zebra FDD features an intelligent controller with an internal RAM of 64K, 48K more than our original one.

### T.O.S. Operating System

Have you ever wondered what certain of the functions that appear on your TS2068 keyboard are for? Functions like CAT, ERASE, OPEN\*, CLOSE\*, and FORMAT. T.O.S. was designed by Timex engineers and therefore uses all these keyboard functions along with the ones you're already familiar with in cassette mode.

The T.O.S. is very similar to the TS2068's cassette operating system. For example, to save a BASIC program to cassette you'd type in SAVE "name". Saving a BASIC program to disk is just as simple, you just add an asterisk after the save command: SAVE\* "name". The Zebra FDD disk controller, automatically traps these disk commands and acts on them. The T.O.S. operating system is very powerful, and is probably the operating system you'll choose to use most of the time.

### CP/M Operating System

Also included free with each new Zebra FDD is the CP/M 2.2 Operating System from Digital Research which will let you access a large library of CP/M business and personal software. We include a terminal emulator program which allows your TS2068 to run CP/M in 64 column mode and use all the common TS2068 80-column printer interfaces.

### The Zebra FDD is FAST!

The Zebra FDD is about ten times faster than cassette. TechDraw Junior, for example, occupies 38K of RAM, takes 195 seconds to load from cassette, but only 18 seconds from disk. MSCRIPT word processor occupies 13K, takes 81 seconds from tape compared to 9 seconds from disk. And these comparisons only tell part of the story since with tape you first have to find the program, sometimes rewind the tape, sometimes re-adjust the volume. With the disk you just type the program name.

### STORAGE CAPACITY

The Zebra FDD uses Hitachi 3 inch drives and Maxell or Panasonic 3" compact floppy diskettes. AMSTRAD, the company that just bought out Sinclair, uses these same disks by the millions in Europe. Each disk stores 140K of data per side of a diskette for a total of 280K per disk. The T.O.S. Operating system lets you store up to 256 files per disk which can be subdivided into 16 subdirectories having 16 files each.

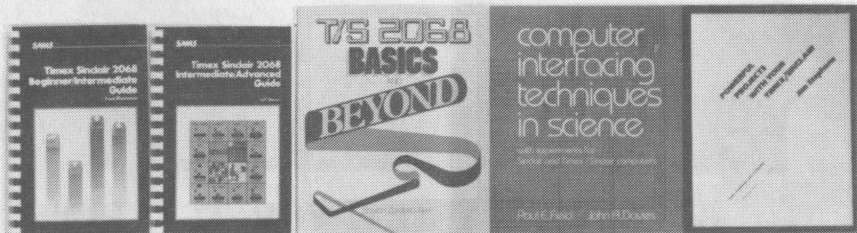
### HARDWARE COMPATIBILITY

The Zebra FDD comes with an interface adaptor that features two connectors, one is a straight feed-through of the TS2068 bus, the other accommodates the FDD. The Zebra FDD is compatible with all of your existing TS2068 peripherals including the TS2040 and Alphacom/32 thermal printer, the WC2050 Modem, Aerco CPI, Tasman CPI, A&J Micro-Drives, Zebra Talker, OS-64 and more!

### Two FREE RS232 Serial Ports

The ZFDD disk controller features two RS232 serial ports which you can use, if you wish, to drive a printer, modem, or directly to another computer's serial port.

Cat# C551 2-Drive FDD System	\$425.00
Cat# C504 Box of 5 3" diskettes	20.00
Cat# C503 Box of 10 3" diskettes	39.95
Cat# C505 Serial Printer Cable-option	19.95



## All the books listed on these two pages are on sale for \$5 each, 2 for \$9, 3 for \$12.

### **TS2068 Beginner/Intermediate Guide** **By Fred Blechman.**

This book is a good companion to the TS2068's User's Guide. The author explains in a very friendly fashion the mechanics of operating the TS2068 and BASIC programming. Includes information on the peculiarities of Timex BASIC, the keyboard, the sophisticated display capabilities, and practical application programs that illustrate the potential of the TS2068.

**Catalog #: C173**

**List Price: \$9.95**

### **TS2068-Intermediate/Advanced Guide** **By Jeffrey Mazur**

This book provides 228 pages of TS2068 Hardware and Machine language references. Material that picks up where the TS2068 Beginners/Intermediate Guide ends. One section of the book helps you to speed up existing programs, to preform functions normally unavailable from BASIC, and contains many useful programs in BASIC and Machine Language which you can type into your computer. Another section provides information on how to build a variety of useful devices to add on to your TS2068 Computer. This book should be on the shelf of any Advanced TS2068 owner who wishes to better understand their computer.

**Catalog #: C192**

**List Price: \$9.95**

### **TS2068 Basics and Beyond** **By Sharon Aker**

Polish your BASIC programming with TS2068 Basics and Beyond. Designed for beginning and intermediate BASIC programmers, this book offers a collection of tips and techniques that contribute to easier and better programming. This book offers over 120 short demonstration, game, and utility programs that show creative BASIC programming in action. Both new and experienced programmers will benefit from the line-by-line explanations that accompany each program. And a helpful "Quick Tips" section can save you time, effort and frustration when writing programs.

**Catalog #: C178**

**List Price: \$9.95**

### **Computer Interfacing Techniques in Science** **with experiments for Sinclair and** **Timex/Sinclair computers.**

**By Paul E. Field and John A. Davies**

Designed for use with the ZX81, TS1000, TS1500, or TS2068, the experiments in this book help develop programming and circuit building skills while illustrating important concepts in the physical sciences. Each experiment includes step-by-step directions, a list of necessary components, and easy-to-follow schematics and diagrams. These experiments show how microcomputers can be readily adapted for practical uses in the school, university, home or laboratory.

Readers will also learn how to build input and output ports, convert analog signals to digital input, and generate the control signals used for advanced interfacing. Anyone with a basic understanding of electricity and of the BASIC programming language can quickly learn to measure and control experiments and instrumentation with microcomputers.

**Catalog #: C230**

**List Price: \$12.95**

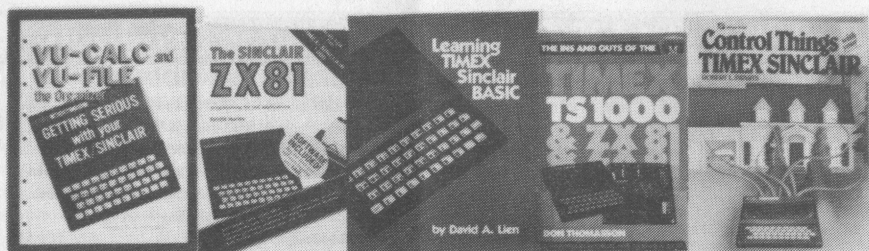
### **Powerful Project with Your Timex/Sinclair** **By Jim Stephens**

Designed for hobbyists and experimenters, novice or experienced, this book shows you how to build creative electronic projects in your home. Beginning with the basics, Jim Stephens clearly explains all the wiring techniques and components you'll need to control external devices with your computer. This book contains the following enjoyable projects: construct simple yet powerful control circuits, build an interface connector, create a weather station, build your own robot, construct a speech synthesiser for your robot.

This how-to book gives you detailed instructions for doing these projects with the TS2068, TS1500, TS1000 and ZX81 computers.

**Catalog #: C231**

**List Price: \$12.95**



## All the books listed on these two pages are on sale for \$5 each, 2 for \$9, 3 for \$12.

### **Vu-Calc and Vu-File (The Organizer) Getting Serious with Your Timex/Sinclair By Robert B.V. Masters**

A practical "how to" book containing information and completely developed applications. Besides telling you how to get the most out of VU-CALC and VU-FILE (THE ORGANIZER), this book also contains appendices on how to customize these programs to meet your individual needs. Also contained in this book are tear-out worksheets for both VU-CALC and VU-FILE (THE ORGANIZER). While this book mostly pertains to the ZX-81/TS1000/1500 versions of VU-CALC and VU-FILE (THE ORGANIZER), there is a section specifically covering the TS2068 version for TS2068 users.

**Catalog #: C136**

**List Price: \$17.95**

### **ZX81 Programming for Real Applications**

Tired of zapping aliens? Want to really use your TS1000/1500 or ZX81? Then this book and software package is for you. Many practical programs to use on the Sinclair, that will do "real" jobs in a variety of environments: data-base, educational programs, financial programs, and a word processor. 164 pages plus 12 programs on cassette.

**Catalog# B101 Includes free cassette! 5.00**

### **Learning Timex/Sinclair BASIC**

**By Dr. David A. Lien**

Learning Timex/Sinclair BASIC is a 350 page comprehensive manual for the Timex/Sinclair 1000 and Sinclair ZX80/ZX81 which will answer all your programming questions. Its simple, step-by-step instructions make learning the BASIC language a breeze, especially for first-time computer users. Don't miss this opportunity to learn from a proven teacher of BASIC how to write your own custom software. It includes many sample programs, as well as exercises which you can use to test your knowledge of BASIC as you progress. This book is a must for any TS1000/1500 or ZX80/ZX81 owner.

**Catalog #: 135**

**List Price: 14.95**

### **INS and OUTS of the TS1000 & ZX81**

The Ins and Outs of the TS1000/ZX81 contains the complete circuit diagram of this amazing computer, as well as a full discussion of the unorthodox methods which are used in making this microcomputer do what it does. The author also includes a number of practical projects to enable you to take full advantage of the system's hardware including expanding its memory capabilities. The Ins and Outs of the TS1000/ZX81 is the only book to deal with the hardware aspects of the TS1000/ZX81, and is a must for anyone interested in building their own peripherals for this computer.

**Catalog #: C107**

**List Price: \$12.95**

### **Control Things With Your Timex Sinclair**

Put that TS1000 or 1500 to work. Control things around the house: turn on lights and appliances remotely, monitor temperature in one or more locations. Build a programmable I/O port. This book shows you how plus many more projects. Also several chapters on how to write software for controlling things. 183 pages.

**Catalog #: B102**

**List Price: \$6.95**

*Unfortunately space limitations don't allow us to more fully describe the following good books.*

#### **TS2068 Books**

##### **Inside the TS2000**

**Catalog # B003**

**9.95**

#### **TS1000 Books**

##### **Exploring TS1000/1500 Graphics**

**Catalog #: C126**

**List Price: \$9.95**

##### **Explorer's Guide to the TS1000/1500**

**Catalog #: C127**

**List Price: \$9.95**

##### **BASIC Basics for the TS1000/1500/ZX-81**

**Catalog #: C128**

**List Price: 9.95**

##### **Programming Your TS1000 in BASIC**

**Catalog #: C164**

**List Price: \$9.95**

##### **The Elementary TIMEX/SINCLAIR**

**Catalog #: C130**

**List Price: \$14.95**

#### **TS1000/1500/2068**

##### **Brain Games for Kids and Adults**

**Catalog #: C199**

**List Price \$8.95**

# TS1000/TS1500/TS2068 Modem Products

The products in this column are only recommended for electronics experimenters and hobbyists.

## NEW, UNTESTED, & UNCASSED WC2050 MODEM BOARDS

Anchor Automation sold these fully assembled boards as surplus at an auction. They are untested and are offered on an AS-IS, NO-RETURN basis. Since we've announced the availability of these boards, we have sold over 1000 of these. Customers have reported that better than 2 out of three have been fully functional as received, and most of the others have been easy to repair.

Cat# W251 \$10.00 each, 3/25.00, 10/70.00

## 9 Volt DC - 700ma Power Supplies

These are brand new Sinclair ZX-81 power supplies and are perfect for your ZX81, TS1000/1500, or for use with the modem boards above. Quantity discounts are available.

Cat# PS01 \$6.00 each, 2/10.00, 3/12.00

## RS-232 Conversion Kit For WC-2050 Modem Boards

The price of our untested & uncased modem boards is so reasonable that not only are they being used as modems, but also the boards and sometimes just their parts are being put to many other uses by creative Timex hobbyists and experimenters. One of the things we've done at Zebra Systems is develop a very simple circuit to change one of these Modem boards into a general purpose RS232 board, which can then be used to drive serial printers and other devices. We thought the idea was so simple and cost-effective that we're making it available as a product.

We are introducing a complete kit consisting of a small printed circuit board, 3 IC's, a DB-9 connector, other miscellaneous parts, and instructions. The board develops the negative voltage required for true RS232 and has proper Driver and Receiver chips. After installing our RS232 board with a pin and socket system right onto your modem board's 8251 Serial chip, all that remains is to make 3 trace cuts and add one jumper wire to complete installation. Clear instructions are provided with a discussion of the theory of operation and some simple BASIC and assembly language printer drivers.

A short experimenters guide to the WC2050 is included. It explains such things as how to change the address decoding to other port assignments, how to change baud rate under software control, and more. The WC2050-to-RS232 Kit (Catalog #: C183) includes all parts and instructions necessary for installation and operation. A bare board for the modification is also available.

Cat# C183 WC2050-to-RS232 Kit 9.95

Cat# C184 PC Board and Instructions only 5.95

## ZEBRA Z300 MODEM

The Z300 modem is a 300 baud, auto-dial, auto answer, direct connect modem. It is fully compatible with the Westridge Communications WC2050 modem and all its software support. It is supplied with power supply, MTERM/T cassette software, instruction manual, and a Zebra Systems 90 day warranty.

Cat# Z300 Modem \$69.95

## ZTERM64

For a description of ZTERM64 64-column modem software for the TS2068 see page 7 of this catalog.

## MTERM/T for the TS1000/1500/2068

MTERM/T (also known as MTERM I) is a smart terminal program which has the following features: auto-dialing of phone numbers, change modem parameters, change Border, Ink, and Paper colors (TS2068 version only.). MTERM/T is supplied on tape with user's manual.

Cat# ST01 MTERM/T 12.95

## MTERM II for the TS2068

MTERM II is an advanced software package for your TS2068 equipped with the WC2050 modem. MTERM II features a 14 Number Auto Dial Directory, 27k Send/Receive buffer which can be erased, viewed, printed, or transmitted, 10 Macrokeys which hold up to 53 characters each for auto logon, codes, etc.. You can transmit and receive BASIC programs, and text from a BBS or another TS2068 Computer. MTERM II is also available on fast-loading Zebra Command Cartridge format.

Cat# ST02 MTERM II Tape 29.95

Cat#: ST2C MTERM II Cartridge 34.95

## The Complete Guide to MTERM II By Barry Carter

This book tells you all you wanted to know about MTERM II. It details many features of MTERM II that were left out of the manual. A MUST-HAVE book for MTERM II owners!

Cat# C139 Complete Guide to MTERM II 8.00

## MINI XMOD 1.7 for the TS1000/1500

MINI XMOD 1.7 allows your Timex 1000/1500 or ZX-81 equipped with a Westridge 2050 modem to Up and Download programs to any XMODEM Protocol BBS (Like ZEBRA BBS). Includes 16k and 64k versions on cassette and User's manual. Requires a minimum of 16k of RAM.

Cat# WE01 MINI XMOD 1.7 19.95



# ZX81/TS1000/TS1500 Product Highlights

## 32K & 64K MEMOTECH TS1000 RAMS

We purchased a quantity of new Memotech TS1000 RAM Modules at closeout prices and are passing on the savings to you. These RAMS are very attractively housed in black extruded aluminum cases, and feature feedthrough connectors for piggybacking other bus peripherals. The 64K RAM's memory segments can be DIP-Switch enabled/disabled in 16K segments. These are really an excellent quality product and used to sell for much higher prices. Quantities are limited.

CAT# C464 Memotech 64K RAM Module \$49.95  
CAT# C432 Memotech 32K RAM Module \$24.95



## GENERAL ELECTRIC DATA RECORDERS

These GE tape recorders were designed specifically for computer data. The staff at Zebra has found them to be the most reliable loading tape recorders for use with both the TS1000 and TS2068 computers. Features include an audible program monitor, record and playback level indicators, and AC Adaptor.

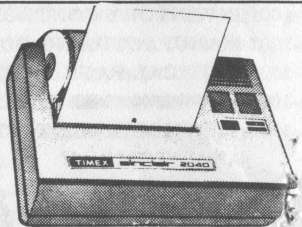
CAT# C415 GE Data Recorder \$24.95



## TIMEX TS2040 THERMAL PRINTER

This is a 32 column Thermal Printer which reproduces all the characters and graphics of the TS1000 computer. It is very compact and reliable. It plugs into the back connector of your computer and features an expansion connector so that you can still plug in a RAM pack behind it. The printer comes with one 82 foot roll of paper.

Cat# S240 Timex TS2040 Printer \$39.95  
Cat# C148 6-Roll pack of Thermal Paper \$15.00



These cases are ideal for carrying your computer on trips or storing it when not in use. They were custom molded for TIMEX Corporation, resemble small attache cases, measure approximately 14" x 10" x 4", have a black leather-like texture, distinctive Timex/Sinclair logo, and small fold-away carrying handles.

Each case has 7 individual compartments for the following items: ZX81, TS1000, or TS1500 computer, power supply, user's manual, cassette and video cables, T.V. switch box, TS1016 16K RAM pack, and four program cassette tapes. Order catalog # CC01 \$10.00



## TIMEX TS1016 16K RAM PACK

The TS1000 Computer has 2K of random access memory built into it. The TS1016 16K RAM Pack will increase your computer's memory capacity to 16K so that you can load and run all the most popular software titles. This 16K RAM can also be used to extend the TS1500's built-in 16K RAM to 32K.

Cat# S116 Timex 16K RAM Pack \$15.00

## WORD SINC II.3 WORDPROCESSOR

WORD SINC II.3 is a full featured word processor that will transform your TS1500 into a real word processing system. WORD SINC II.3 prints 42 characters per line on the TS2040 printer in UPPER and LOWER case plus punctuation and 20 special character. Requires TS2040 or Alphacom 32 thermal printer.

Cat# C174 WORD SINC II.3 \$19.95

## BLANK COMPUTER GRADE TAPES

These are high quality cassettes containing tape specifically formulated for data recording. We use these tapes ourselves for ALL of the software we publish.

Cat# C010 One Dozen C-10 Cassettes \$12.00

Cat# C020 One Dozen C-20 Cassettes \$15.00

## FULL SIZE PRINTER PRODUCTS:

\* Acro 80 -Column Printer Interface for the TS1000. Order Cat# C181 \$99.95

\* WORD SINC II.4 Wordprocessor for full size printer. Order Cat# C177 \$35.00

\* Star Micronics NX-10 Printer (described on page 2) Order Cat# NX10 \$299.95

# ZX81/TS1000/TS1500 Product Highlights

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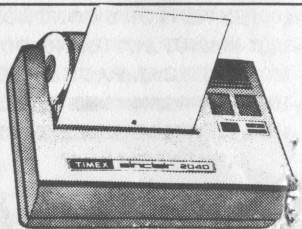
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Cat# C148 6-Roll pack of Thermal Paper \$15.00



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Cat# C174 WORD SINC II.3 \$19.95

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# TS1000/1500 TIMEX CORPORATION SOFTWARE

## ALL TITLES \$5 EACH, 2 for \$9, 3 for \$12

*Save from 50% to 80% over original prices!*

### Cat # Title

- 02-1001 MONEY ANALYZER I
- 02-1000 STATISTICS
- 02-1002 MONEY ANALYZER II
- 02-2000 KEYBOARD CALCULATOR
- 02-3001 POWER PACK I
- 02-3002 GEOMETRY I
- 02-3003 ALGEBRA I
- 02-3004 ALGEBRA II
- 02-4001 MIXED GAME BAG I
- 02-4002 CHALLENGER I
- 02-4003 MIXED GAME BAG III
- 02-4004 BAT CAGE
- 03-1000 VU-CALC
- 03-1001 INVENTORY CONTROL
- 03-1002 MANUFACTURING CONTROL
- 03-1003 CRITICAL PATH ANALYSIS
- 03-1004 ~~NOT MENTIONED~~ Sold Out
- 03-1005 STOCK MARKET TECH ANALYSIS I
- 03-2000 ORGANIZER
- 03-2001 BUDGETER
- 03-2002 LOAN/MORTGAGE AMORTIZER
- 03-2003 CHECKBOOK MANAGER
- 03-2004 COUPON MANAGER
- 03-2005 CAR POOLER
- 03-2006 STAMP COLLECTOR
- 03-2007 STOCK OPTION ANALYZER
- 03-2008 HOME IMPROVEMENT PLANNER
- 03-2009 ~~HOME IMPROVEMENT~~ Sold Out
- 03-2010 IRA PLANNER
- 03-2011 AUTO ANALYZER
- 03-2012 REAL ESTATE INVESTMENT ANALYSIS
- 03-2013 PERSONAL FINANCE PLANNER
- 03-2014 PORTFOLIO ANALYSIS
- 03-2015 HEATING SYSTEM ANALYZER
- 03-2017 SOLAR WATER HEATER DESIGNER
- 03-2018 COLLEGE COST ANALYZER
- 03-2019 ELECTRIC COST ANALYZER
- 03-3000 SUPERMATH

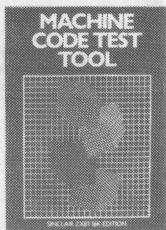


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- 03-3001 STATES AND CAPITALS
- 03-3002 FLIGHT SIMULATOR
- 03-3003 PRESIDENTS
- 03-3005 PUNCTUATION MASTER
- 03-3006 ATOR THE ABC GATOR
- 03-3007 CAPITALIZATION MASTER
- 03-3008 ~~NOT MENTIONED~~ Sold Out
- 03-3009 GUITAR FOR BEGINNERS
- 03-3010 LANGUAGE USAGE
- 03-3011 SUPERDOODLES
- 03-3012 TOTAL TRIANGLES
- 03-3013 MUSIC EDUCATOR I
- 03-3014 CONVERSATIONAL GERMAN
- 03-3015 CONVERSATIONAL FRENCH
- 03-3016 CONVERSATIONAL SPANISH
- 03-3017 SPELLING BEE
- 03-3018 FUNDAMENTALS OF MATH
- 03-3019 TEACHER'S GRADEBOOK
- 03-3020 INTRODUCTION TO CHEMISTRY
- 03-3021 COMPUTER COACH
- 03-3022 WORD QUEST
- 03-3023 DOOBARRY DOMINO
- 03-4000 CHESS & CHESS CLOCK
- 03-4001 BACKGAMMON & DICE
- 03-4002 GAMBLER
- 03-4003 CUBE GAME
- 03-4004 GRIMM'S FAIRY TRAILS
- 03-4005 MIXED GAME BAG I
- 03-4006 SUPERMAZE
- 03-4007 BIGFLAP ATTACK
- 03-4008 RAM RUNNER
- 03-4009 PUZZLER
- 03-4010 PINBALL
- 03-4011 STOCK MARKET GAME
- 03-4012 FROGGER
- 03-4013 FORTRESS OF ZORLAC
- 03-4014 TRAP
- 03-4015 STRATEGY FOOTBALL
- 03-4016 KASINO KRAPS
- 03-4017 TAROT
- 03-4018 MERCHANT OF VENUS
- 03-4019 TRIDENT
- 03-4020 GALACTIC GUNNER



The Machine Code Test Tool is a utility program which comes complete with a 32 page tutorial course manual, enabling you to enter, test, display and debug hexadecimal machine code routines simply and quickly. Good for absolute beginner to expert level. Order Cat# C282 9.95



This book combined with The Machine Code Test Tool are the ideal way to learn machine code programming. It is very thorough and well written.

By David B. Wood, 250 pages.

Cat# C149 14.95

A PRACTICAL GUIDE TO  
MACHINE LANGUAGE  
PROGRAMMING  
ON THE TIMEX/SINCLAIR  
1500 AND 1000  
(AND ZX81)

David B. Wood  
StratusWare

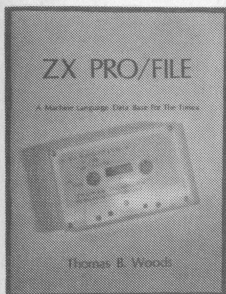
Cat# TW01

**ZX PRO/FILE for the TS1000**

**\$16.95**

ZX PRO/FILE is a fast, efficient data organizer, and is by far the most popular data management program for the TS1000. Use it to keep mailing lists, research data, sales and product information, etc.

The 59 page ZX PRO/FILE manual includes complete operating instructions, file construction tips, examples, printed program listings and a detailed explanation of how the program works. Chapters tell about big memories, how to adapt fast load utilities, how to add tabulation capabilities for data analysis, and much more.



These programs require 16K RAM unless specified.

**All these TS1000 Cassettes \$5 Each, 2 for \$9, 3 for \$12**

**MELBOURNE HOUSE**

*Cat# Title*

MH001 11 GAMES

MH002 STARFIGHTER

*Cat# Title*

MH003 CATACOMBS

MH004 3D MONSTER MAZE

**SOFTSYNCH**

SST01 SPACE RAID/TS DESTROYER 2K

SST02 ADVANCED BUDGET MANAGER

SST03 STOCK MARKET CALCULATOR

SST04 SHARK'S TREASURE

SST05 SPACE COMMANDO

SST06 BIORHYTHMS

SST07 DOUBLE FEATURE ADVENTURE

SST08 2K GAMES PACK

SST09 MAZOGS

SST10 METEORITES

SST11 RED ALERT

SST12 ALIEN INVASION

SST13 GRAPHICS KIT

SST14 PROGRAMMERS TOOLKIT

SST15 ALPHA/VOWEL TUTOR

SST16 HANGMAN

SST17 MATH RAIDERS

SST18 MOTHERSHIP

SST19 NIGHTGUNNER

SST20 SUPERCHESSE

**RESTON PUBLISHING**

C301 MONARCH

C302 DEMOLITION/TEN-PIN

C303 CHAMPIONSHIP CHESS

C304 ONE-ARM BANDIT/BLACKJACK

C305 THE NOWOTNIK PUZZLE

C306 INVASION FORCE

C307 ESCAPE FROM SHAZZAR



Zebra Systems, Inc. 78-06 Jamaica Ave. Woodhaven, NY 11421

## New Product Announcement

### SPRITES 2068

As you may already know, "sprites" are computer graphic objects which can be easily and quickly moved around on a video screen. Hints of how to write sprite software for the TS2068 are given in Timex's TS2068 Technical Manual but it is not really adequately explained.

Now there has been a major breakthrough. After months of research, two TS2068 diehards: Vernon Tidwell and Ron Ruegg, have now figured out how to use sprites on the TS2068. And even more importantly, they have written an excellent 34 page manual that explains all about it in their product called SPRITES 2068.

It doesn't matter whether you're a BASIC or machine language programmer - with the easy interface of the sprite service utility and the superb manual that explains it, you will be able to create your own moving sprite graphics. You may want to create complete games or just experiment and learn more about computer graphics techniques. In either case you'll enjoy the ease and the amazing high speed with which your own graphic creations will move.

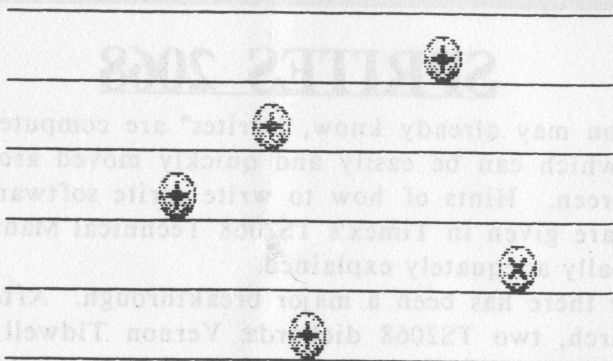
SPRITES 2068 consists of the 34 page manual and a cassette tape. The cassette includes a 2520 byte machine code sprite service utility, a SPRITEDRAW BASIC program for defining and moving your own sprites (including twelve sprite commands), and exciting sprite demonstration programs.

Considering the quality of this product, its excellent documentation, ~~that~~<sup>the</sup> fact that there isn't anything else like it available, and most importantly what it can do for you on your TS2068, this is beauty of a program, and a bargain at only \$19.00. Be sure to order yours now.

**Order Catalog No. C421      SPRITES 2068      Only \$19.00**

over..

# SPRITES 2068



"5BALLS" (Motion Study)

FIGURE 1. Screen copy of rolling balls, just one of the sprite demonstration routines included on the SPRITES 2068 cassette. See how easy it is to make objects roll across the screen in different directions at different speeds. Included on sprites 2068 cassette.

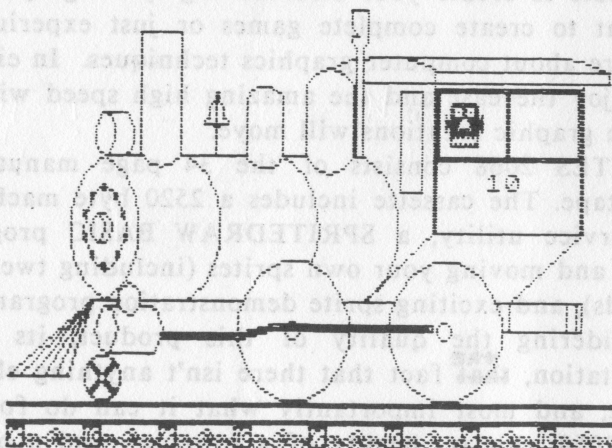


FIGURE 2. Screen copy of speeding locomotive sprite demo. The wheels spin, smoke comes from smokestack, the bell rocks back and forth when it sounds, and the train conductor whose name is "Bugger", moves around in the train. Included on sprites 2068 cassette.

# Zebra Systems, Inc.

78-06 Jamaica Avenue  
Woodhaven, NY 11421  
(718) 296-2385

**TIMEX** **Sinclair**

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*APT # C*



## New Items

Since Fall-Winter 85 Catalog: TS2068 Technical Manual, Memotech 64K RAMS, Machine Code Test Tool, Banner & Sign Designer, ZTERM64, TechDraw Junior, Star NX-10 Printer, Omnicalc 2, CP/M, GE Data Recorders, Bargain Modem Boards and RS232 adapter kit, and more. New lower prices on: Voice Synthesizers, Books, Timex Corporation 1000 & 2068 software, TS2040 Printers, and more.